

X12A SAFETY CHECKLIST			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
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Original signatures on file.

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1. ☐ Valid padlock log (on hutch door)
2. ☐ Perforated aluminum exclusion zone EZ0 in place between shield wall and Bremsstrahlung shield.
3. ☐ Bremsstrahlung shield BS1 in place and secure, as in photograph
4. ☐ Perforated aluminum exclusion zone EZ1 (part 1) in place and secure.
5. ☐ Water is flowing through the beryllium window (check that the paddle is turning in flowmeter mounted on wall above beamline).
6. ☐ Outboard lead brick of X12B Bremsstrahlung shield in place and secure (acts as X12A exclusion zone)
7. ☐ Perforated aluminum exclusion zone EZ1 (part 2) in place and secure.
8. ☐ Lead wrapped around instrumentation cross as in photograph
9. ☐ Glass viewport on instrumentation cross covered with leaded glass window and glass sheet, secure in place
10. ☐ Perforated aluminum exclusion zone EZ1 (part 3) covering instrumentation cross and pipe to Bremsstrahlung shield BS2
11. ☐ Bremsstrahlung shield BS2 in place and secure as in photograph
12. ☐ Lead wrapped around bellows and spool-piece in place and secure
13. ☐ Slit tank wrapped in lead sheet and banded as in photograph
14. ☐ Bellows downstream of Valve 2A wrapped in lead outside of 4" flange
15. ☐ Monochromator tank wrapped in lead and banded as in photograph
16. ☐ Glass viewport on top of monochromator tank covered with leaded glass window and lead sheet, secure in place
17. ☐ Electrical feed-through on top of monochromator tank fitted with lead cover.
18. ☐ Diagnostic-cross wrapped in lead as in photograph
19. ☐ Glass viewport on diagnostic-cross fitted with leaded glass window secure in place
20. ☐ Bellows downstream of diagnostic cross wrapped in lead
21. ☐ Lead wrapped around beampipe in place from hutch wall out to bellows.
22. ☐ Beam-dump in place and secure (outside of hutch on downstream side, see picture).
23. ☐ Users interlocks all satisfied (all green light on panel in relay rack above walkway)
24. ☐ Painted lead lining on hutch walls and inside door in place and secure.
25. ☐ Beryllium window terminating beamline in place and coated with corrosion inhibitor (see pictures)

Checked by: _____ Date: _____

OPCO: _____ Date: _____